

## Media Holding Package

**BACKGROUND OF THE INVENTION**

This invention relates to media holding packages.

Several media holding packages are known in the art. Some of the packages are  
5 suitable for holding multiple recording products. Many of the packages are functional  
in nature. Needs exist for improved packages which are useful for storing multiple  
media or recordings and which are attractive and suitable for presentation without  
further wrapping or embellishment.

10 **SUMMARY OF THE INVENTION**

A new media-holding box is provided by the present invention. The new  
package is suitable for holding and storing media and is particularly attractive. The  
new package is created to attract the attention of prospective purchasers. The new  
boxes are particularly suited for presentations or for giving as gifts. The new disc  
15 boxes hold any number of discs. The boxes may be assembled before discs are  
inserted. Discs may be inserted in trays, which are attached to rigid boards to complete  
the disc-holding boxes. Lengthening or shortening the rigid creased board, changing  
lengths of spines and changing depth of the box base accommodates any number of  
discs.

20 In one form of the invention rigid creased boards are made of chips or fibers.  
The boards are creased to create alternating tray-holding panels and spines. The back  
surfaces of the boards are covered with a decorative coating - for example a silver  
Mylar film. At least the back of the panel most distant from the box base is  
decoratively coated to provide an attractive package. Graphics may be printed on labels  
25 or directly screened or printed on outer surfaces of the packages.

The present invention is well suited to the manufacture of the box base and  
board parts and the gluing and attachment of the box base and board parts before final  
assembly of the trays. The trays are loaded with discs before the loaded trays are

attached to the boards. Alternatively, the empty trays are attached to the boards before the discs are mounted in the trays. Before mounting trays on the boards, glue is placed in four recesses near corners of bottoms of the trays.

In a preferred embodiment one disc-mounting panel is glued to an inner bottom  
5 of the box. The longer first spine immediately adjacent to the fixed panel is glued to a sidewall of the box. The opposite sidewall has a recess adjacent its edge. The base box tightly holds the second spine and the folded panels. A thumb of the user placed in the recess enables the user to contact the second spine and to tip the panels out of the box base. The tray on the panel, which is secured to the box base, is first exposed. Rotating  
10 the outer folded panel around the second spine, which is remote from the box base, provides access to the other trays.

In one embodiment a boxed disc package includes a box base. A foldable rigid board has multiple parallel hinge creases. The creases separate the board into alternating tray-receiving panels and intermediate spines. Tray-holding boards are  
15 mounted on the panels. Disc-holding trays are mounted on the tray-holding boards. The back of one panel of the foldable rigid creased board is secured in a bottom of the box base. The remaining board receiving panels with the attached tray-holding boards and trays are folded successively around the spines for overlying each other and tipping into the box base, thereby forming the boxed disc package.

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### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of the opened disc box apparatus.

Figure 2 is a top of view of the closed disc box apparatus.

Figure 3 is an exploded view of the disc box apparatus. Figure 4 is an  
25 assembled view of the disc box apparatus shown in Figure 3.

Figure 5 is a side elevation, partially in cross section, of the assembled disc box apparatus shown in Figure 4.

### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Figures 1-5, a disc box for a boxed set of discs is generally indicated by the numeral 1. The disc box has a box base 3. The three dimensional open top cardboard box base is covered with a decorative sheet in a manner that is well known in the gift box art. Creases 7 divide a foldable rigid creased board 5 into multiple hinged areas 9. The multiple hinged areas 9 include disc tray-receiving panels 11, 13 and 15 and separating spines 17 and 19. The back of the end panel 11 is secured to the inner bottom of the box base 3. Preferably the back of the foldable rigid creased board 5 is covered with decorative material, such as a thin lamination of silver Mylar.

Disc trays 21, 23 and 25 are mounted on individual tray-holding boards 27, 29 and 31. The tray-holding boards are glued to the panels 11, 13 and 15 of the rigid creased board 5. Preferably the tray-holding boards are covered with a decorative material, such as a thin lamination of silver Mylar, which is visible through the clear trays. The disc trays 21, 23 and 25 have central disc-receiving depressions 33 with finger openings 35. Central rosettes 37 have depressible central buttons 39 to release the discs, which are held in the trays. Four glue receivers 41 are positioned at corners of each tray to hold glue. The glue secures the trays on the decorative Mylar layers on the tray-holding boards.

After discs are attached to the trays 21, 23 and 25, the outer panels 15 is folded on the middle panel 13. The two folded-together panels are tipped into the box base 3, forming a package 1, as shown in Figure 2.

Figure 3 shows the parts of the package 1 before it is assembled. The disc trays 21, 23 and 25 may be mounted on the individual tray-holding boards 27, 29 and 31. The tray-holding boards are secured to the appropriate panels 11, 13 and 15 of the rigid creased board 5. The back of panel 11 is glued to the inner bottom 43 of the box base 3. The box base 3 is initially prepared by forming a chipboard, fiberboard or cardboard box. The box is coated with a decorative covering, such as a white opaque sheet material 45, in a well-known box manufacturing method.

The rigid creased board 5 is coated on its back 47 with a decorative sheet such as a reflective silver Mylar film 49. The individual tray-holding boards 27, 29 and 31 are initially coated on their tray-holding sides 51 with a decorative sheet called such as a reflective silver Mylar film 52. The individual trays 21, 23 and 25 may be glued onto the tray-holding boards before the boards are glued to the panels of the rigid creased board. Preferably, the tray-holding boards are glued to the panels of the rigid creased board before the trays are mounted on the tray-holding boards.

As shown in Figure 4, the entire disc box apparatus is assembled before discs are placed in the trays. Alternatively the discs may be placed in the trays before the back of panel 11 is glued to the inner bottom of the box. As a further alternative the discs may be mounted in the trays before the trays are glued to the tray-holding boards.

Figure 5 shows a partially cross sectional view of the disc box 1. Panel 11 is glued in the bottom 43 of the base box 3. Preferably the longer spine 17 lies along and is glued to the inner sidewall 53 of the box. First, the tray 25 attached to the outer panel 15 is folded 61 over spine 19. The tray 25 attached to the outer panel then overlies the tray 23 attached to the middle panel 13. The folded-together outer and middle trays are folded 63 along the crease at the top of spine 17 into the box base 3. The package 1 is completed with a label or screened or printed graphic on the outward facing back of panel 15 or on the outside of the base box 3.

The disc box package may be constructed with trays for holding fewer or more than three discs. For example, the panel 15 and tray 25 may be omitted, and the length of the spine 17 may be reduced to accommodate a thickness of only two mounted trays. At the same time the side walls of the box may be reduced to accommodate only the two trays. Alternatively the spine 17 and the box sidewalls may be reduced to accommodate the thickness of only one tray-holding board and two layers of the rigid creased board.

As a further alternative, gluing one panel to the bottom 43 of the disc box base 3 may be eliminated. In that embodiment only the wider spine 17 is glued to the inner

sidewall 53 of the box base 3. Conversely, when the back of the inner panel 11 is glued to the bottom 43 of the box base, gluing the outside of the spine 17 to the sidewall 53 of the box base may be omitted.

5 In preferred embodiments, the creases 7 are formed in the upper surface of the board 5, except for the crease 55 between spine 17 and panel 13. Crease 55 is formed on both sides of board 5, so that the hinge formed along that crease can bend 180° (90° in both opposite directions). The remainder of the creases 7 are single-sided so that the board 5 folds through 90° and opens and extends away from the box 3 in a flat configuration.

10 Several trays and discs may be accommodated by the new package by increasing the lengths of the spines and by increasing the numbers of panels on which the tray-holding boards and trays are mounted.